

AD-A121 650

19314A KLRS MISSILE NUMBER BC-140 BC-144 BC-141 ROUND
NUMBER V-319/PQ-59..(U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM.. SEP 82

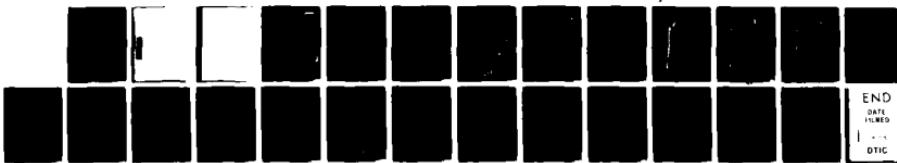
1/1

UNCLASSIFIED

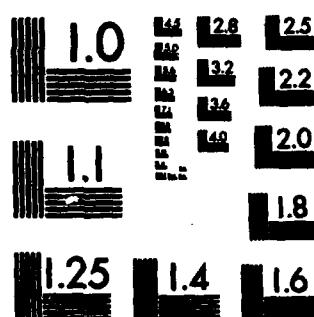
ERADCOM/ASL-DR-1258

F/G 4/2

NL

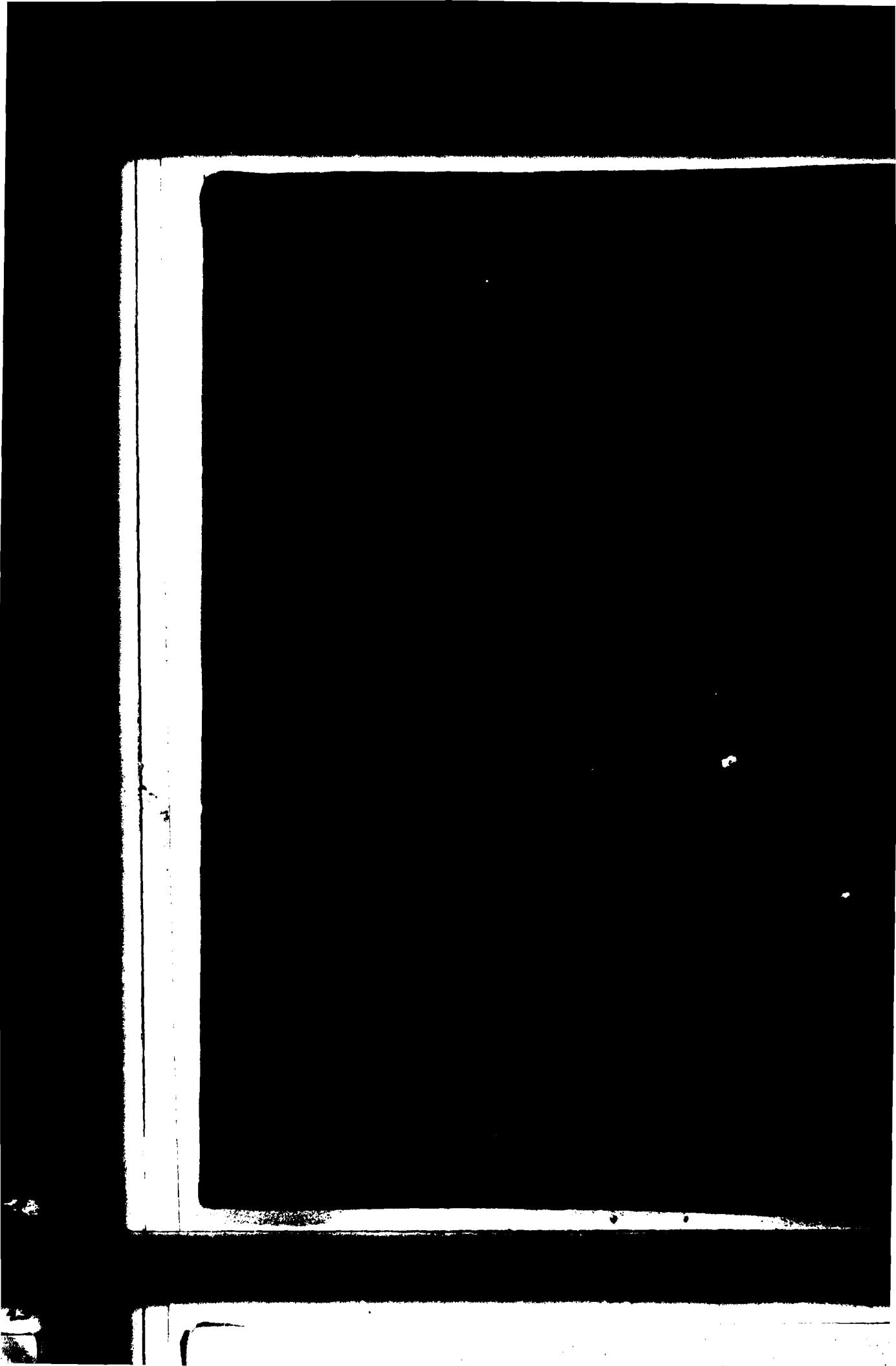


END
DATE FILMED
1-19-82
OTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AD A 121 650.



UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (If different from Report)

REPORT DOCUMENTATION PAGE	
1. REPORT NUMBER DR 1258	2. DRAFT ACCORDING TO <i>1121650</i>
3. TITLE (and Subtitle) 19314A MLRS, Missile No. BC-140, BC-144, BC-141 Round No. V-318/PQ-58, V-319/PQ-59, V-320/PQ-60	4. TYPE OF REPORT & PERIOD COVERED
5. AUTHOR(s) White Sands Meteorological Team	6. PERFORMING ORG. REPORT NUMBER DA TASK 1F665702D127-02
7. PERFORMING ORGANIZATION NAME AND ADDRESS	8. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	12. REPORT DATE Sep 82
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783	13. NUMBER OF PAGES
16. DISTRIBUTION STATEMENT (of this Report)	15. SECURITY CLASS. (of this report) UNCLASSIFIED
<p style="text-align: center;">This document has been approved for public release and sale; its distribution is unlimited.</p>	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release, distribution unlimited.	
18. SUPPLEMENTARY NOTES	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)	
<input checked="" type="checkbox"/> Abstract (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19314A MLRS, Missile No. BC-140, BC-144, RC-141, Round No. V-318/PQ-58, V-319/PQ-59, V-320/PQ-60, presented in tabular form.	

NOV 22 1982

S

A

CONTENTS	PAGE
INTRODUCTION-----	1
DISCUSSION-----	1
GENERAL AREA MAP-----	2
LAUNCH AREA DIAGRAM-----	3
TABLES	
1. Surface Observation Taken at 1530 MDT at DEADHORSE-----	4
2. Anemometer Measured Winds 30 FT AGL-----	5
3. Anemometer Measured Winds 30 FT AGL-----	6
4. Anemometer Measured Winds 90 FT AGL-----	7
5. Pilot-Balloon Measured Wind Data at Mal Site at 1535 MDT-----	8
6. Aiming and T-Time Computer Met Messages-----	9
7. Lana Significant Level Data at 1230 MDT-----	10
8. Lana Upper Air Data at 1230 MDT-----	11
9. Lana Mandatory Levels at 1230 MDT-----	12
10. Rita Significant Level Data at 1330 MDT-----	13
11. Rita Upper Air Data at 1330 MDT-----	14
12. Rita Mandatory Levels at 1330 MDT-----	15
13. Lana Significant Level Data at 1400 MDT-----	16
14. Lana Upper Air Data at 1400 MDT-----	17
15. Lana Mandatory Levels at 1400 MDT-----	18
16. Rita Significant Level Data at 1530 MDT-----	19
17. Rita Upper Air Data at 1530 MDT-----	20
18. Rita Mandatory Levels at 1530 MDT-----	21

Accession For	
NTIS GRA&I	
REF TAB	
Unannounced	
Justification	
Distribution/	
Availability Codes	
Avail and/or	
Dist	Special
A	



INTRODUCTION

19314A MLRS, Missile Numbers BC-143, BC-144 and BC-141, Round Numbers V-318/PQ-58 thru V-320/PQ-60, were launched from DEADHORSE, White Sands Missile Range (WSMR), New Mexico, at 1530:01, 1530:05 and 1530:10, MDT 10 Sep 82. The scheduled launch times were 1500 MDT and 4.5 seconds separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the DEADHORSE Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from a double theodolite pilot-balloon observation at:

SITE AND ALTITUDE

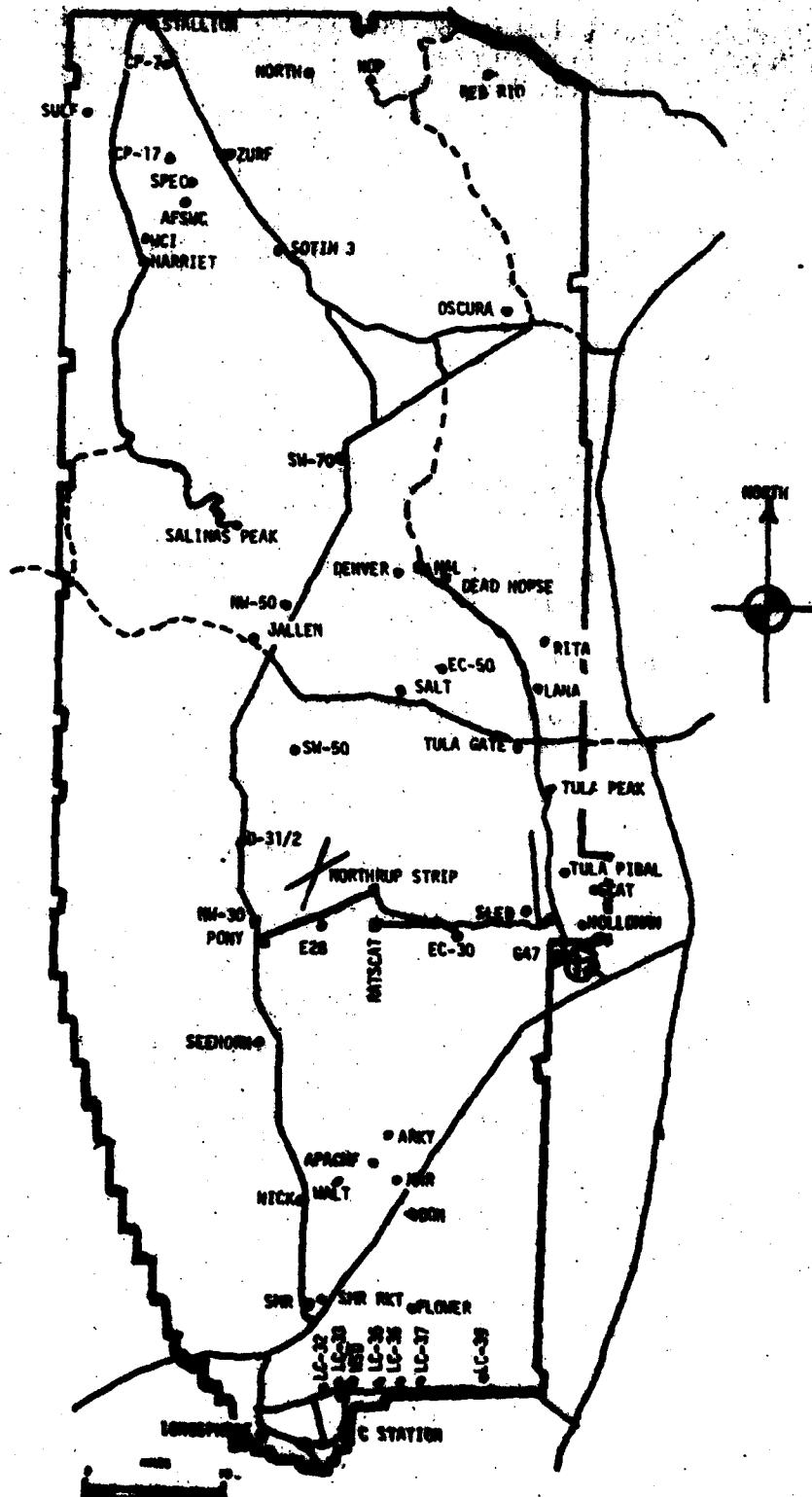
MAL - 800 meters

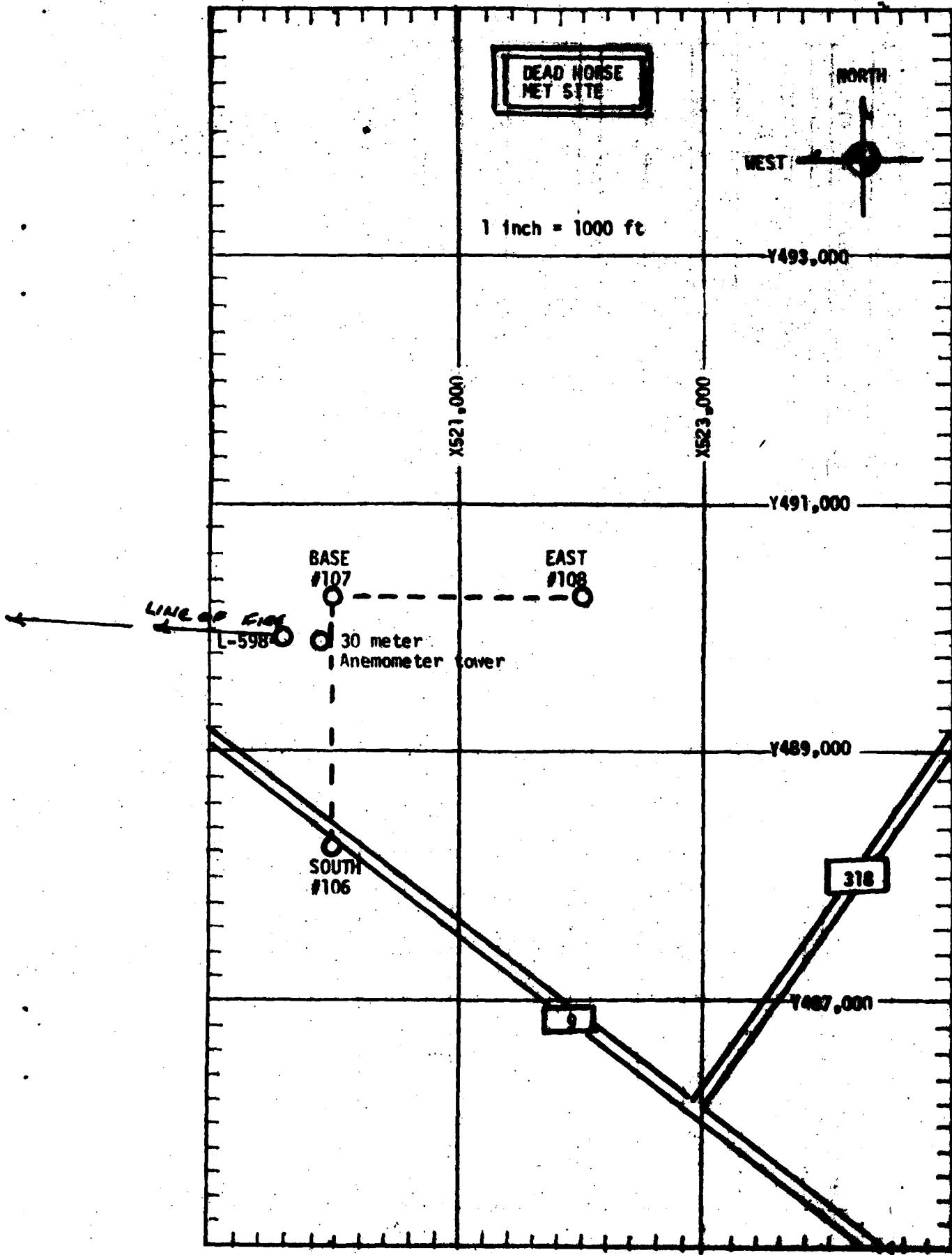
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

LANA	1230 MDT
RITA	1330 MDT
LANA	1400 MDT
RITA	1530 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1

DATE 10 SEPTEMBER 1982

STATION DEADHORSE

X= 519,600.4 Y= 489,900.5 H= 4131.6

TIME M.D.T.	PRESSURE mba	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	WIND DIRECTION deg Tn	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
1530	872.0	23.7	18.4	72	1.022	220	08		12

OBSTRUCTIONS TO VISIBILITY	CLOUDS			REMARKS		
	1st LAYER AMT	TYPE	HGT	2nd LAYER AMT	TYPE	HGT

PSYCHROEOMETRIC COMPUTATION

TIME: MDT	1530		
DRY BULB TEMP.	23.7		
WET BULB TEMP.	20.0		
WET BULB DEPR.	3.7		
DEW POINT	18.4		
RELATIVE HUMID.	72		

TABLE 2

ANEMOMETER DATA 30 FOOT LEVEL OF
30 METER TOWER

X=519,929.74 Y=489,901.20 H=4132.51 (BASE)

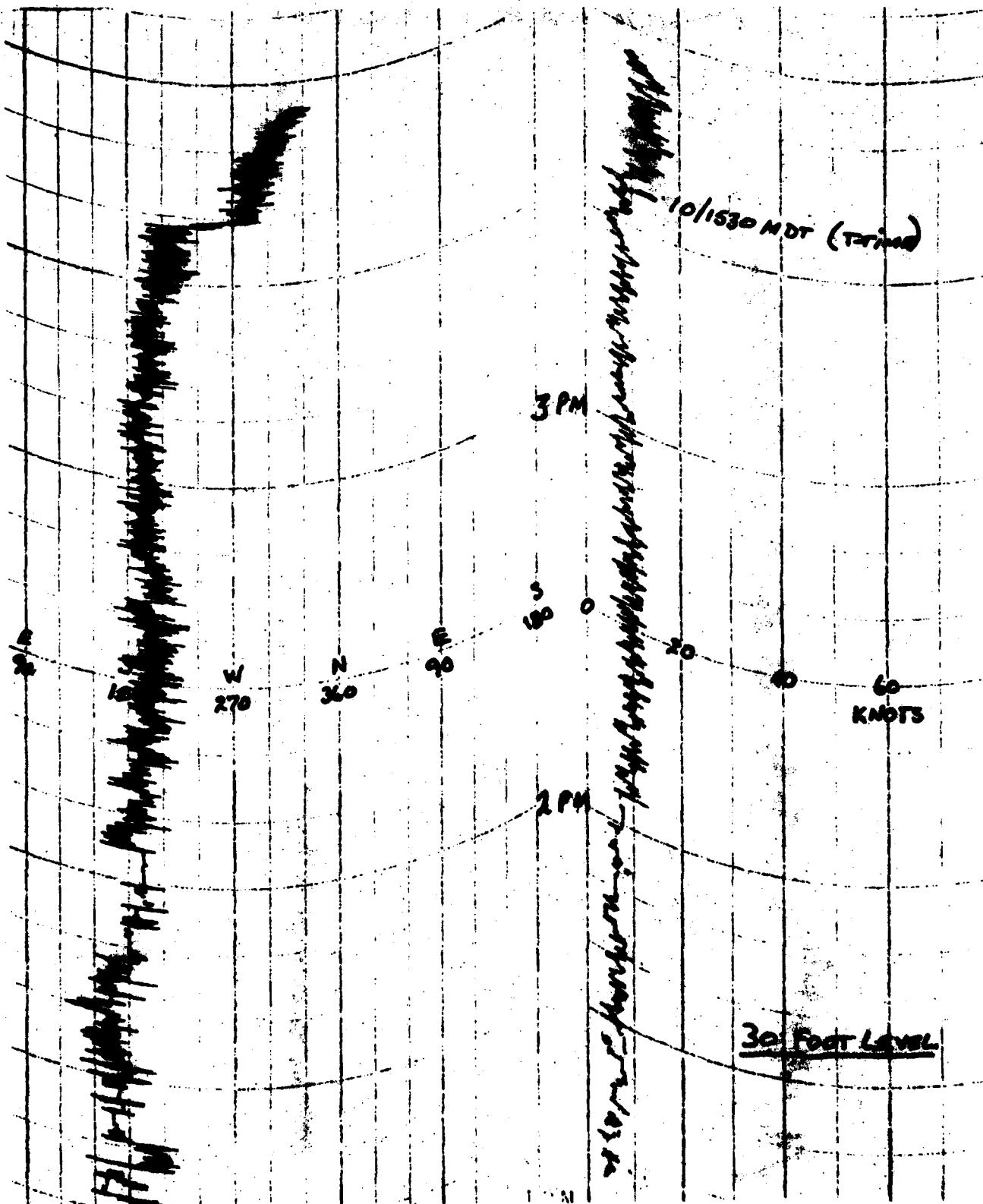


TABLE 3

NO. 4273, 1001 GE ALTO SIGHTING
ANEROMETER DATA AT FOOT LEVEL
OF 100' METEOR TOWER
X=519,923.74 Y=429,931.20 H=4132.51 (BASE)

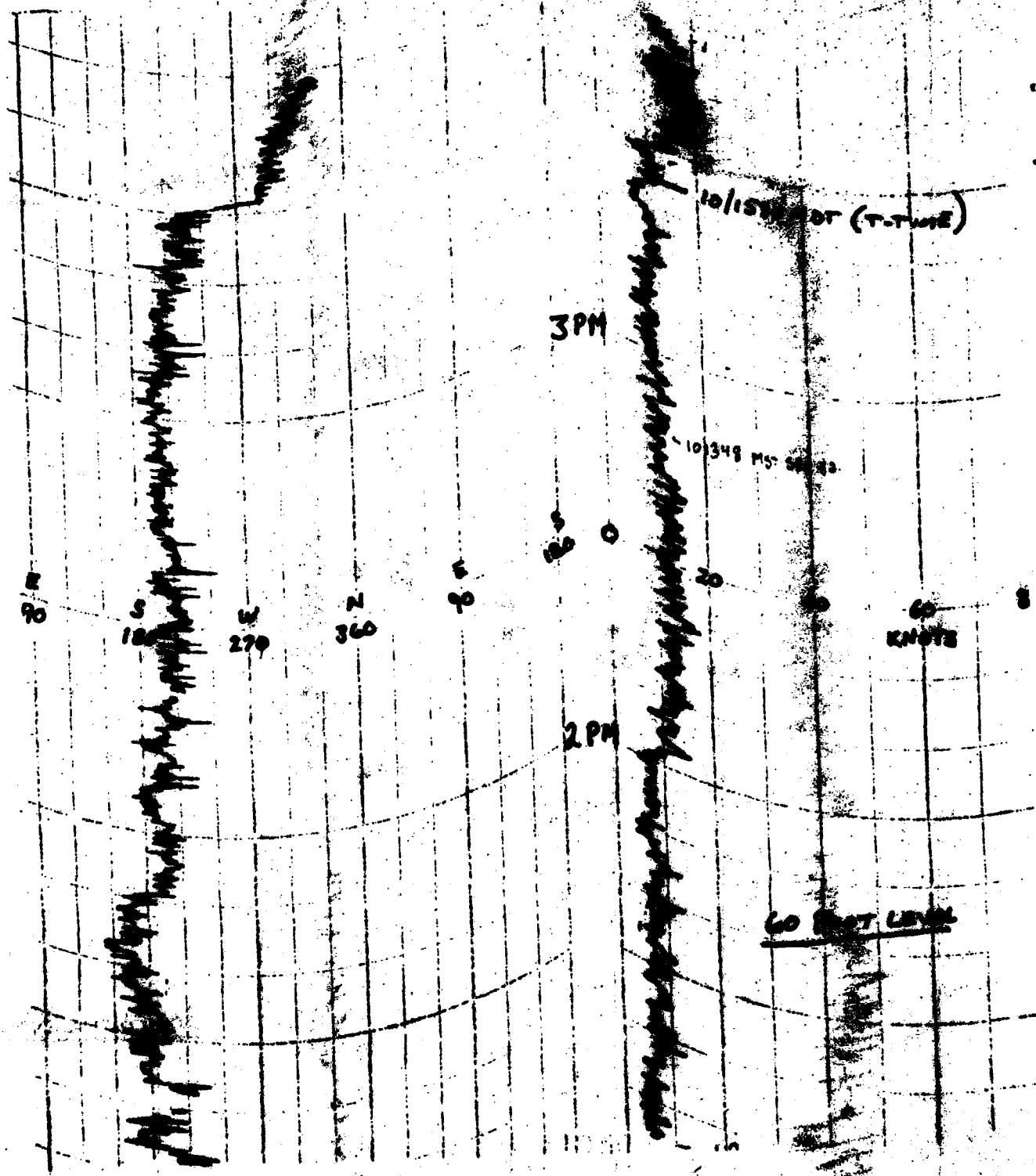


TABLE 4

ANEMOMETER DATA 90 FOOT LEVEL OF
30 METER TOWER

X=519,923.74 Y=489,901.20 H=4132.51 (BASE)

10/1530 MDT (T-TIME)

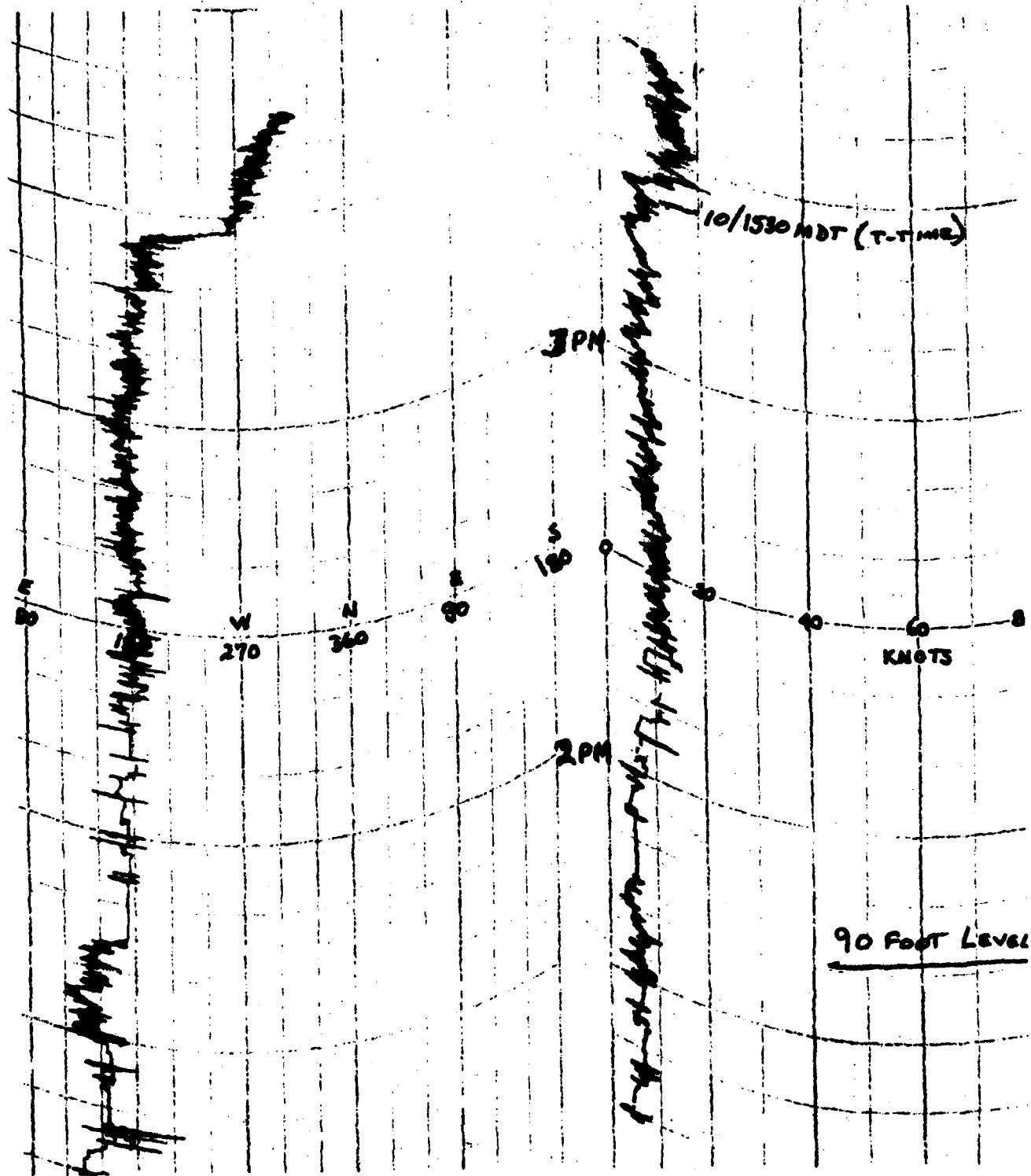


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 10 Sep 82

SITE: MAL
 TIME: 1535 MDT
 WSTM COORDINATES:
 X= 509,421.05
 Y= 495,563.18
 H= 4,126.80

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	220	10
150	259	16
210	262	17
270	260	16
330	258	16
390	255	14
500	251	15
650	256	16
800	262	17
950	Balloon lost in clouds	
1150		
1350		
1550		
1750		
2000		

TABLE 6
AIMING AND T-TIME COMPUTER MET MESSAGES

LANA 1230 MDT		RITA 1330 MDT	
METCM1331062		METCM1332062	
101850127873		101950128872	
00320003	30000873	00302008	30150872
01351006	29760863	01265012	29820862
02329008	29470838	02295012	29500838
03344007	29150800	03323010	29180800
04440009	28790754	04384010	28870754
05425010	28530711	05394014	28540710
06461013	28160669	06412016	28180669
LANA 1400 MDT		RITA 1530 MDT	
METCM1331062		METCM1332062	
102000127873		102150128871	
00320003	30370873	00320005	29990871
01357008	29890863	01340013	29860861
02328010	29600838	02342018	29610837
03379007	29210800	03364019	29240799
04431012	28900755	04384019	28870753
05429014	28560711	05392016	28480710
06415016	28230670	06346013	28160668

STATION ALTITUDE 4173.4 FEET MSL
10 SEP. 82 1230 HRS HDT
ASCENSION NO. 5

SIGNIFICANT METEOROLOGICAL DATA
LANA
TABLE 7

GEOGRAPHIC COORDINATES
33°13'51.0 LAT DEG
106°15'46.0 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DRYPOINT DEGREES CENTIGRADE	REL HUM. PERCENT
872.6	4173.4	24.4	65.0
876.6	4239.5	23.2	65.0
850.0	4930.5	26.3	68.0
754.6	5263.4	12.6	84.0
721.2	5521.5	11.9	66.0
786.6	10340.9	9.6	70.0
691.5	10674.5	6.7	65.0
664.9	11740.6	7.0	76.0
636.1	13187.0	3.3	95.0
598.6	14542.2	0	82.0

STATION ALTITUDE 9173.44 FEET MSL
10 SEP. 82 1230 HRS NDT
ASCENSION NO. 5

UPPER AIR REPORT
LANA
TABLE 8

GEODETIC COORDINATES
33°13'51" LAT DEG
106°15'46" LON DEG

ATMOSPHERIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	SPEED OF SOUND METER	DENSITY GM/CUBIC METER	WIND DATA KNOTS DEGREES(TN)	INDEX OF REFRACTION
9173.4	29.9	17.0	65.0	1013.0	674.9	180.0	1.000311
8560.0	28.1	15.5	66.1	1010.2	672.0	181.3	1.000302
8477.9	26.1	14.1	68.3	999.9	669.6	182.5	1.000294
8322.9	19.8	13.6	70.7	986.1	668.5	183.2	1.000289
8165.2	17.9	13.0	73.1	972.6	666.9	184.7	1.000284
8035.8	16.8	12.4	75.5	959.2	665.6	186.7	1.000279
7890.6	15.6	11.8	77.9	946.1	664.3	209.9	1.000274
7750.6	14.5	11.2	80.3	933.2	662.9	230.0	7.2
7615.9	13.6	10.5	82.7	920.5	661.5	244.8	6.3
7484.4	12.6	9.9	81.4	906.8	660.6	244.2	9.1
7350.9	12.3	9.1	75.8	892.0	660.0	242.6	9.7
7218.6	11.9	6.7	70.2	877.5	659.5	239.6	9.7
7086.7	10.7	5.4	79.0	865.7	657.9	241.6	10.1
6955.9	9.3	5.5	77.2	854.2	656.3	248.5	10.9
6825.3	8.2	5.4	82.9	841.4	655.1	253.9	11.9
6700.8	7.1	6.1	79.6	829.2	654.9	258.2	12.9
6570.5	6.3	5.3	81.0	817.2	652.7	262.9	12.8
6440.6	5.1	3.1	86.9	805.8	651.3	267.7	12.5
6310.5	3.8	2.7	92.6	794.6	649.7	268.5	12.0
6180.7	2.7	1.6	92.0	783.1	644.4	1.000269	1.000262
6050.1	1.8	-1.1	87.2	771.4	647.2	759.9	646.0
5920.0							1.000266

727-3421-1
TS 1000 E
141515Z

STATION ALTITUDE 9173.49 FEET MSL
1330 MDT
20 SEP. 82
ASCENSION NO. 5

HANDAIRE LEVELS
2530320005
LANA
TABLE 9

GEOGRAPHIC COORDINATES
33°13'51.0 LAT DEG
106°15'44.6 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE DEGREES CENTIGRAVE	REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TRUE) KNOTS
950.0	1927.	20.3	16.2
800.0	6638.	16.5	12.3
750.0	8433.	12.7	9.7
700.0	10331.	9.6	6.6
650.0	12330.	5.4	4.6
600.0	14473.	.9	3.2

		66.	182.3
		76.	200.3
		82.	244.3
		79.	246.3
		85.	266.5
		-1.7	85.

STATION ALTITUDE 4186.74 FEET MSL
ON SEP. 62
SECTION NO.

SIGNIFICANT METEOROLOGICAL DATA
25JUL1966
RITA
TABLE 10

GEODETIC COORDINATES
33°16'29" LAT DEG
166°15'11" LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES	AIR DEPOINT CENTIGRADE	REL. HUM. PERCENT
872.0	4186.7	25.0	16.4	56.0
866.6	4365.9	22.9	15.0	61.6
858.0	4916.6	20.7	14.4	67.0
855.0	6456.9	16.6	14.2	66.9
763.0	7924.6	13.6	12.3	92.0
739.0	8811.2	13.0	7.1	64.0
700.0	10336.7	9.0	5.4	75.0
632.2	15983.6	4.2	3.2	93.0
597.6	19541.7	1.2	0.0	92.0

STATION ALTITUDE 4186.74 FEET MSL
10 SEP. 62 1330 HRS MDT
ASCENSION NO. 4

UPPER AIR DATA
2530210004
RITA
TABLE 11

GEOGRAPHIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

GEOMETRIC ALTITUDE MIL. FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TIN)	INDEX OF REFRACTION
4186.7	872.0	16.4	56.0	1007.9	676.3	170.0	1.000304
4020.5	862.5	22.4	62.5	1009.3	672.2	170.7	1.000294
3860.3	852.7	19.2	68.0	998.2	679.0	171.6	1.000295
3700.0	843.1	17.8	74.2	985.0	686.6	172.4	1.000293
3540.0	833.6	16.5	80.4	972.1	697.1	173.2	1.000299
3380.0	796.3	15.5	86.2	959.3	685.6	180.5	1.000287
3220.0	776.2	14.5	90.3	945.8	664.3	190.6	1.000262
3060.0	751.7	13.6	92.9	932.5	663.1	202.9	1.000276
2900.0	736.1	13.7	91.9	918.9	662.0	213.1	1.000269
2740.0	720.7	13.3	90.1	903.4	661.8	215.1	1.000255
2580.0	705.7	12.9	89.4	899.0	661.9	216.1	1.000244
2420.0	691.5	11.9	89.6	877.3	659.4	216.3	1.000240
2260.0	677.9	11.7	89.6	865.9	657.8	221.1	1.000236
2100.0	664.1	11.3	87.8	854.0	656.3	226.1	1.000233
1940.0	650.7	10.9	86.4	841.3	655.2	230.5	1.000229
1780.0	637.5	10.5	85.0	828.9	654.0	233.0	1.000225
1620.0	624.3	10.1	84.2	816.6	652.8	235.5	1.000222
1460.0	611.1	9.7	83.7	804.5	651.7	231.1	1.000218
1300.0	597.9	9.3	83.5	792.6	650.5	227.4	1.000215
1140.0	584.6	8.9	83.4	780.9	649.3	221.1	1.000210
980.0	571.1	8.4	82.4	769.4	648.9	216.4	1.000205
820.0	557.7	7.9	81.2	758.0	646.8	210.1	1.000200

10 SEP 62
1330 HRS
ELEV 4186.74 MSL

STATION ALTITUDE 9100.70 FEET MSL
SE SUR. 82 1330 HRS MDT
ELEVATION NO.

MANDATORY LEVELS
RITA
TABLE 12

GEOGRAPHIC COORDINATES
33°16'29" LAT DEG
106°15'14" LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	RHUM. PERCENT	WIND DATA DIRECTION DEGREES (TM) KNOTS
980.0	9915.	20.7	10.4	171.5 8.0
986.0	6627.	16.2	16.0	163.1 10.1
992.0	8424.	13.7	9.0	214.6 10.3
998.0	10325.	9.6	5.4	224.5 15.3
1004.0	12336.	5.7	3.9	86.0 14.6
1010.0	14472.	1.4	.3	92.0

STATION ALTITUDE 4173.44 FEET MSL
10 SEP. 62 1400 HRS MDT
ASSTN NO. 6

SIGNIFICANT DATA

GEODETIC COORDINATES
33.13510 LAT DEG
166.15446 LON DEG

LANA
TABLE 13

PRESSURE ALTIMETRIC MILLIBARS MSL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	PERCENT PERCENT.
872.7	4173.4	26.5 21.3 73.0
867.6	4343.1	23.3 15.9 63.0
856.8	4936.4	21.7 14.8 65.0
826.7	5721.6	19.5 14.3 72.0
786.7	7046.9	15.5 12.4 82.0
768.2	7781.7	14.3 11.1 81.0
751.7	8386.0	14.5 8.5 67.0
746.8	10352.7	9.9 4.9 71.0
676.7	11197.1	6.9 5.6 89.0
669.7	11927.6	6.9 2.6 74.0
639.7	13010.7	5.9 1.7 79.0
608.3	14496.6	.5 -.1 96.0

STATION ALTITUDE 4173.04 FEET MSL
10 SEP. 82 1400 HRS ADT
ASCENSION NO. 6

UPPER AIR DATA
LAMA
TABLE 14

GEOGRAPHIC COORDINATES
35°13'51" LAT DEG
106°13'46" LON DEG

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	VIRFCTION DEGREES (TN)	WIND DATA KNOTS	INDEX OF REFRACTION
4173.0	972.7	26.5	21.3	73.0	1003.4	074.1	180.0	2.9
4098.0	942.9	22.9	15.6	63.5	1007.5	672.9	184.9	3.9
3988.0	917.9	21.5	16.8	65.6	994.9	671.3	189.0	5.4
3500.0	873.2	20.1	14.5	70.0	982.3	669.7	191.2	7.0
3120.0	828.6	18.7	16.6	74.1	970.0	666.0	193.1	8.4
2840.0	781.2	17.2	13.3	77.9	958.1	666.2	208.6	7.5
2560.0	735.6	12.5	81.6	94.6	946.4	664.4	225.7	7.6
2280.0	700.8	11.6	81.4	93.2	932.7	663.2	238.6	9.0
1990.0	672.2	10.8	16.2	75.9	917.8	612.6	241.4	10.5
1710.0	640.2	9.2	8.2	67.2	902.4	662.3	240.7	11.9
1430.0	735.2	7.1	7.4	65.2	890.1	660.0	240.8	12.9
1150.0	723.0	11.9	6.5	69.3	877.9	659.4	261.0	13.7
870.0	700.7	5.5	78.3	865.9	658.0	260.4	14.4	1.000236
690.0	676.2	9.7	5.6	72.6	853.3	656.8	259.6	15.0
410.0	653.2	9.1	5.6	77.9	839.4	654.2	237.1	15.9
130.0	671.2	8.1	6.4	77.5	827.5	654.9	236.5	15.0
0.0	689.0	6.8	2.5	74.3	816.6	653.2	234.3	16.2
0.0	695.0	2.1	76.6	804.1	652.1	234.4	13.4	1.000214
0.0	701.0	1.7	79.0	791.9	651.1	235.4	13.1	1.000210
0.0	707.0	1.2	84.6	781.5	649.3	771.3	647.5	1.000204
0.0	713.0	0.6	90.3	771.3	649.3	771.3	647.5	1.000204

STATION ALTITUDE 4173.44 FEET MSL
10 SEP. 83 1400 HRS ADT
ASCENSION NO. 6

MANDATORY LEVELS
25300006
LAMA
TABLE 15

GEOGRAPHIC COORDINATES
33.13510 LAT DEG
106.1546 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR DEGREE DEGREES CENTIGRADE	TEMPERATURE DEGREE CENTIGRADE	HUMIDITY PERCENT	WIND DATA	
					DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4927.	21.7	14.8	65.	188.5	5.2
800.0	6643.	16.7	13.0	79.	213.7	7.3
750.0	8442.	14.4	8.3	67.	240.6	11.6
700.0	10243.	9.9	4.9	71.	239.6	14.6
650.0	12556.	6.1	2.2	76.	234.4	13.6

STATION ALTITUDE 9186.74 FEET MSL
10 SEP. 82 1530 HRS MDT
ASCENSION NO. 5

SIGNIFICANT LEVEL DATA
2530210005
RITA
TABLE 16

GEOGRAPHIC COORDINATES
33°16'29" LAT DEG
106°15'14" LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
971.1	9186.7	24.0	16.8	64.0
850.0	4890.2	21.5	15.1	67.0
823.0	5781.6	19.6	15.0	75.0
790.0	6935.0	16.1	13.9	87.0
719.8	9548.9	11.2	9.3	86.0
780.0	10313.0	8.5	7.4	93.0
679.8	11310.4	7.4	6.5	94.0
657.2	12826.0	6.0	5.3	95.0
630.8	13139.2	4.5	3.6	95.0
605.0	14246.3	2.0	1.1	94.0
595.6	14662.5	1.0	.6	94.0

5
SIXTY-SEVEN FEET ONE
INCHES HIGH BY FORTY-THREE FEET
TWO INCHES LONG.

RAIL AIR MAIL
UPPER SUGARLOOVA
ROUTE 17

GEODETIC COORDINATES
33°16'29.6" LAT DEG
106°15'11.1" LONG DEG

TEMPERATURE AIR	DEGREES CELSIUS	REL.HUM. PERCENT	DENSITY G/CUBIC METER	SPEED OF WIND DATA KNOTS	DIRECTION DEGREES (INI)	SPEED KNOTS	INDEX OF REFRACTION
16.0	65.0	65.0	1012.0	079.4	180.0	9.9	1.000300
16.0	65.0	65.0	1005.0	079.0	185.4	11.1	1.000303
15.1	72.5	57.0	970.4	071.0	192.0	15.1	1.000297
15.1	72.5	57.0	969.3	064.9	196.7	15.3	1.000294
15.1	72.5	57.0	967.3	064.0	200.3	17.5	1.000291
15.1	72.5	57.0	955.4	060.7	203.6	16.4	1.000287
15.1	72.5	57.0	943.4	059.0	207.0	16.5	1.000282
15.1	72.5	57.0	929.9	043.0	211.3	16.5	1.000275
15.1	72.5	57.0	916.3	020.0	214.1	16.6	1.000269
14.0	82.5	47.0	903.4	001.4	216.5	16.9	1.000265
13.0	87.0	37.0	889.4	009.3	217.8	16.5	1.000261
12.0	87.0	37.0	877.7	056.1	218.0	16.1	1.000257
12.0	87.0	37.0	867.3	037.0	217.7	16.0	1.000254
12.0	87.0	37.0	855.7	020.0	216.3	16.0	1.000251
11.0	87.0	37.0	841.9	001.7	207.0	15.4	1.000245
10.0	87.0	37.0	828.7	053.0	195.0	12.5	1.000235
9.0	87.0	37.0	816.0	032.0	185.7	13.0	1.000226
8.0	87.0	37.0	803.7	01.0	184.4	15.0	1.000217
7.0	87.0	37.0	790.9	005.0	184.2	17.3	1.000216
6.0	87.0	37.0	779.3	000.0	185.2	16.0	1.000211
5.0	87.0	37.0	764.2	000.0	186.7	16.0	1.000205
4.0	87.0	37.0	750.4	000.0	187.7	16.0	1.000200

STATION ALTITUDE 9186.7 FEET MSL
10 SEP. 82 5 1530 HRS HDT
ASSEMBLAGE NO.

MANDATORY LEVELS
2530210055
RITA
TABLE 18

GEOGRAPHIC COORDINATES
33.1829° LAT DEG
106.1511° LONG DEG

PRESSURE GEOPOTENTIAL MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	HUMIDITY PERCENT	DIRECTION DATA DEGREES (TN)	SPEED KNOTS
850.0	48.7	21.5	15.1	67° 190.7 12.7
850.0	66.05	17.1	14.3	84° 204.7 18.4
850.0	84.06	13.3	11.3	88° 216.2 18.7
750.0	103.04	8.5	7.4	93° 216.9 15.4
700.0	123.11	5.6	4.9	95° 105.6 15.0
650.0	144.51	1.7	.9	94°
600.0				

END
DATE
FILMED

DTIC